

METHOD AND APPARATUS FOR PERIODIC SIGNAL DETECTION IN OFDM/DMT SYSTEMS

Abstract

A method for detecting a periodic signal in a communication system. The method includes converting a time domain digitized signal to obtain a corresponding frequency domain digitized signal, quantizing at least two symbols of the frequency domain digitized signal to obtain quantization information, utilizing the quantization information to compute a detection metric for periodic signal detection, and determining that a periodic signal is detected if the detection metric is greater than a predetermined threshold.